PRODUCT CHARACTERISTIC SHEET and COC

1000100212-5

PLEASE READ BEFORE USING!

Material: CONVEX® High-Bond Matte For Solvent Ink Jet Printers

Part Nos: CHBM62050W, CHBM63050W, CHBM66050W

General Description: White, soft, flexible vinyl with a clear permanent acrylic adhesive. Convex® Matte base materials are intended to be used for printing with Solvent & Eco-Solvent Ink Jets. Different combinations of Convex® or Pro-Shield™ laminates can be used to achieve a variety of decal thicknesses. Please see the disclaimer at the bottom.

Thickness:	4 mil. vinyl with 2 mil of adhesive	Adhesive Properties:
Outdoor Life:	6 years	2 mils. of permanent acrylic pressure sensitive adhesive works for
Shelf Life:	2 years stored at 70 F & 50%RH	most surfaces including textured low energy plastic and metal
Service Temperature Range:	(-40° F to 176° F)	surfaces
Minimum Application Temp.:	50° F	

Tests performed | results:

Ulitmate Peel from	Average OZ/IN	Test Method	
Acrylic	150	ASTM D 903 (Modified for 72 hour dwel	I time)
Glass	156		
Polypropylene	32		
Stainless Steel	134		
Expected Shear	30	ASTM D 3654 Method A	a. 1 hrl dwell
Room Temp (hours)			b. 1 sq. in. surface
			c. 4 lb. load
Tack (gm/sq cm)	1100	ASTM D 2979	

CERTIFICATE OF
CONFORMANCE
(COC)

Sold to:				Lot No.:	1000100212-5
Buyer:		PO#	Supplier's Authorized Rep.:		Demas Garcia
Supplier:	Graphic Marking Systems	MFR Part No:	Top of the page	Title:	Converting Manager
MFR Date:	10/12/12	Ship Date:		Date:	10/12/12

Recommended Application Techniques:

On curved surfaces such as helmets, apply rubbing from the center out. When Convex Laminate is separated from the liner it is unsupported and can stretch during the laminating process. If there is too much reverse tension applied on the supply roll it will stretch and curl up immediately when it is cut. Laminate with a cold pressure sensitive laminator or by hand.

RIP Software Settings:

Although we do not offer specific profiles for ink jet printers on this material, we have found that most RIPS do offer generic matte white vinyl profiles that require minimal adjustments to get acceptable results. The user must determine what is acceptable for the desired application

USE A 45° blade or 60° BLADE on any combination of material 8 mil or thicker.

Disclaimer

All of the descriptive information listed above is our recommendation only. This information does not suggest or constitute a written or verbal warranty or guaranty of any kind by the manufacturer or distributor of this product. Although this material can be printed on with some solvent based printers, the surface characteristics of the material can change from roll to roll, and failure of optimal printing results are not a basis for returning the product. Purchasers of this product shall be responsible for independently determining the suitability of the material for the intended application. GMS0612 Graphic Marking Systems

Material Safety Data Sheet (MSDS)

CONVEX® High-Bond Matte Material Name:

> CHBM62050W, CHBM63050W, CHBM66050W Part Nos:

General Description: Matte White, soft, flexible vinyl with a clear permanent acrylic adhesive.

9/28/2011 Date Prepared:

Company:

Graphic Marking Systems

28457 N. Ballard Rd., Suite A1 Address:

Lake Forest, IL 60045

847-582-9276 Phone:

847-582-9282 Fax:

Composition and information on ingredients:

Individual components of this product do not contribute to any known hazards.

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200): NONE

UL Recognized: ROHS Compliant:

NO YES

YES

REACH Compliant:

Hazards Identification:

POTENTIAL HEALTH EFFECTS: None

ACUTE: No significant toxic hazard. When burned may produce toxic fumes.

CHRONIC: No significant toxic hazard.

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

First Aid Measures:

Emergency and First Aid Procedures:

ROUTES OF ENTRY:

N/A Skin: Inhalation: N/A Eves: N/A Ingestion: N/A

Accidental Release Measures: N/A

Handling and Storage:

No special handling required other than storing away from

excessive heat sources.

Fire Fighting Measures:

Flash Point: N/A Method Used: N/A Auto-ignition Temperature N/A

Flamable limits in Air % by Volume: LEL: N/A, UEL: N/A

Multi-rated ABC extinguisher or water Extinguishing Media:

Unusual Fire and Explosion Hazards: None

Special Fire Fighting Procedures: In case of fire, use self-contained breathing

apparatus and full protective equipment - all fires liberate toxic gases.

Exposure Controls and Personal Protection:

Respiratory Protection: None required

Skin Protection: No precautions required

None required Eve Protection: None established Exposure Guidelines: **Engineering Controls:** None required

Toxicological Information:

OSHA: NONE Carcinogen Status: NTP: NONE IARC: NONE

Ecological Information: No Data Avaialble

Transport Information:

TRANSPORTATION AND HAZARDOUS MATERIALS DESCRIPTION: Not a hazardous material for DOT shipping.

Disposal Considerations: Waste Disposal:

Dispose of in accordance with Local, State and Federal regulations.

Other Information:

The information contained herein is based on the data available to Graphic Marking Systems, and is believed to be correct. However, Graphic Marking Systems makes no warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use thereof. Graphic Marking Systems assumes no responsibility for injury from the use of the product described herein.

Physical and Chemical properties:

Vapor Pressure (mm Hg)	N/A	Boiling Point:	N/A
Vapor Density (air = 1):	N/A	Melting Point:	N/A
Appearance and odor:	N/A	Reactivity of water:	N/A
Specific Gravity (H 0=1)	N/A	Solubility in water:	N/A

Stability and Reactivity:

Stability: N/A

Conditions to avoid: Fire or Excessive Heat

Incompatibility: None Hazardous Decomposition Products: None

Hazardous Polymerization: Will not occur.

Regulatory Information:

OSHA STANDARD CFR 29, PART 1910.1200: This product is considered to be an "article" under this standard.

SARA 313 INFORMATION: This product contains no substances at or above the reporting threshold subject to the reporting requirement of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 371, based on available data.

CALIFORNIA PROPOSITION 65: CALIFORNIA PROPOSITION 65: The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986. Warning this product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.